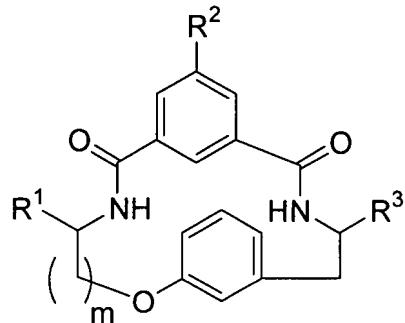


**Listing of Claims**

The listing of claims will replace all prior versions, and listings, of claims in the application. There are no claim amendments.

Claim 1 (Original) A compound of the formula I:



wherein:

R<sup>1</sup> is selected from the group consisting of:

- (1) hydrogen,
- (2) -C<sub>1</sub>-6alkyl, -C<sub>2</sub>-6alkenyl, -C<sub>2</sub>-6alkynyl, or -C<sub>3</sub>-8cycloalkyl which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
  - (a) halo,
  - (b) hydroxy,
  - (c) -O-C<sub>1</sub>-6alkyl,
  - (d) -C<sub>3</sub>-6cycloalkyl,
  - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
    - (i) -C<sub>1</sub>-6alkyl,
    - (ii) -C<sub>3</sub>-6cycloalkyl,
    - (iii) -O-C<sub>1</sub>-6alkyl,
    - (iv) halo,
    - (v) hydroxy,
    - (vi) -CF<sub>3</sub>,
    - (vii) -OCF<sub>3</sub>,

- (viii)  $-\text{NR}^9\text{R}^{10}$ , and
- (ix)  $-\text{CN}$ ,
- (f)  $-\text{CO}_2\text{R}^9$ , wherein  $\text{R}^9$  is independently selected from:
  - (i) hydrogen,
  - (ii)  $-\text{C}_1\text{-6alkyl}$ , which is unsubstituted or substituted with 1-6 fluoro,
  - (iii) benzyl, and
  - (iv) phenyl,
- (g)  $-\text{NR}^9\text{R}^{10}$ , wherein  $\text{R}^{10}$  is independently selected from:
  - (i) hydrogen,
  - (ii)  $-\text{C}_1\text{-6alkyl}$ , which is unsubstituted or substituted with 1-6 fluoro,
  - (iii) benzyl, and
  - (iv) phenyl,
- (h)  $-\text{CONR}^9\text{R}^{10}$ ,

(3) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

- (a)  $-\text{C}_1\text{-6alkyl}$ ,
- (b)  $-\text{C}_1\text{-6alkyl-phenyl}$ ,
- (c)  $-\text{C}_3\text{-6cycloalkyl}$ ,
- (d)  $-\text{O-C}_1\text{-6alkyl}$ ,
- (e) halo,
- (f) hydroxy,
- (g)  $-\text{CF}_3$ ,
- (h)  $-\text{OCF}_3$ ,
- (i)  $-\text{NR}^9\text{R}^{10}$ , and
- (j)  $-\text{CN}$ ;

$\text{R}^2$  is selected from the group consisting of:

- (1) hydrogen,
- (2)  $\text{R}^4\text{-S(O)p-}$ ,

wherein  $\text{R}^4$  is independently selected from the group consisting of:

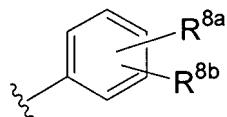
- (a)  $-\text{C}_1\text{-6alkyl}$ , which is unsubstituted or substituted with 1-6 fluoro,
- (b) phenyl, and
- (c) benzyl,

and wherein p is independently 0, 1, or 2,

(3)  $\text{R}^4\text{-S(O)pN(R}^5\text{)-}$ ,

wherein  $\text{R}^5$  is independently selected from the group consisting of:

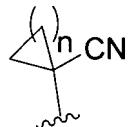
- (a) hydrogen,
- (b) -C<sub>1-6</sub>alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (c) phenyl, and
- (d) benzyl,
- (4) -CN,
- (5) -C<sub>1-6</sub>alkyl-CN,
- (6) halogen,
- (7)



wherein R<sup>8a</sup> and R<sup>8b</sup> are independently selected from the group consisting of:

- (a) hydrogen,
- (b) -CN,
- (c) halo,
- (d) -C<sub>1-6</sub>alkyl,
- (e) -O-R<sup>5</sup>,
- (f) -S-R<sup>5</sup>,
- (g) -CO<sub>2</sub>R<sup>5</sup>, and
- (h) tetrazolyl,

(8)



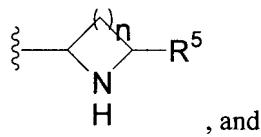
wherein n is 1, 2, 3 or 4;

R<sup>3</sup> is selected from the group consisting of:

- (1) -CH(OH)-R<sup>6</sup>,
- (2) -C(O)R<sup>6</sup>,
- (3) -CH(R<sup>6</sup>)-NR<sup>7</sup>R<sup>9</sup>, and
- (4) -C(O)-NR<sup>7</sup>R<sup>9</sup>;

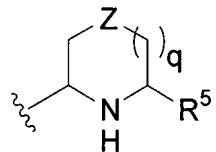
R<sup>6</sup> is independently selected from the group consisting of:

- (1) hydrogen
- (2) C<sub>1-6</sub> alkyl,
- (3)

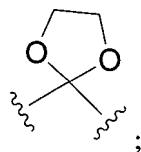


, and

(4)



wherein Z is selected from the group consisting of -C(O)-, -CH(OH)-, and



and wherein q is 1 or 2;

R<sup>7</sup> is selected from the group consisting of :

- (1) hydrogen,
- (2) -C<sub>1</sub>-6alkyl, -C<sub>2</sub>-6alkenyl, -C<sub>2</sub>-6alkynyl, or -C<sub>3</sub>-8cycloalkyl which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
  - (a) halo,
  - (b) hydroxy,
  - (c) -O-C<sub>1</sub>-6alkyl,
  - (d) -C<sub>3</sub>-6cycloalkyl,
  - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
    - (i) -C<sub>1</sub>-6alkyl,
    - (ii) -C<sub>3</sub>-6cycloalkyl,
    - (iii) -O-C<sub>1</sub>-6alkyl,
    - (iv) halo,
    - (v) hydroxy,
    - (vi) -CF<sub>3</sub>,
    - (vii) -OCF<sub>3</sub>,
    - (viii) -NR<sup>9</sup>R<sup>10</sup>, and
    - (ix) -CN,
  - (f) -CO<sub>2</sub>R<sup>9</sup>,

- (g)  $-\text{NR}^9\text{R}^{10}$ ,
- (h)  $-\text{CONR}^9\text{R}^{10}$ ,
- (3)  $-\text{CHR}^5\text{-CONR}^9\text{R}^{10}$ ,
- (4) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
  - (a)  $-\text{C}_1\text{-6alkyl}$ ,
  - (b)  $-\text{C}_1\text{-6alkyl-phenyl}$ ,
  - (c)  $-\text{C}_3\text{-6cycloalkyl}$ ,
  - (d)  $-\text{O-C}_1\text{-6alkyl}$ ,
  - (e) halo,
  - (f) hydroxy,
  - (g)  $-\text{CF}_3$ ,
  - (h)  $-\text{OCF}_3$ ,
  - (i)  $-\text{NR}^9\text{R}^{10}$ , and
  - (j)  $-\text{CN}$ ;

m is independently 1, 2, 3 or 4;  
and pharmaceutically acceptable salts thereof.

Claim 2 (Original) The compound of Claim 1 wherein  $\text{R}^1$  is selected from the group consisting of:

- (1) hydrogen,
- (2)  $-\text{C}_1\text{-6alkyl}$ , which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
  - (a) halo,
  - (b) hydroxy,
  - (c)  $-\text{O-C}_1\text{-6alkyl}$ ,
  - (d)  $-\text{C}_3\text{-6cycloalkyl}$ ,
  - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
    - (i)  $-\text{C}_1\text{-6alkyl}$ ,
    - (ii)  $-\text{C}_3\text{-6cycloalkyl}$ ,
    - (iii)  $-\text{O-C}_1\text{-6alkyl}$ ,
    - (iv) halo,
    - (v) hydroxy,
    - (vi)  $-\text{CF}_3$ ,

- (vii)  $-\text{OCF}_3$ ,
- (viii)  $-\text{NR}^9\text{R}^{10}$ , and
- (ix)  $-\text{CN}$ ,
- (f)  $-\text{CO}_2\text{R}^9$ , wherein  $\text{R}^9$  is independently selected from:
  - (i) hydrogen,
  - (ii)  $-\text{C}_1\text{-6alkyl}$ , which is unsubstituted or substituted with 1-6 fluoro,
  - (iii) benzyl, and
  - (iv) phenyl,
- (g)  $-\text{NR}^9\text{R}^{10}$ , wherein  $\text{R}^{10}$  is independently selected from:
  - (i) hydrogen,
  - (ii)  $-\text{C}_1\text{-6alkyl}$ , which is unsubstituted or substituted with 1-6 fluoro,
  - (iii) benzyl, and
  - (iv) phenyl,
- (h)  $-\text{CONR}^9\text{R}^{10}$ ,

(3) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

- (a)  $-\text{C}_1\text{-6alkyl}$ ,
- (b)  $-\text{C}_1\text{-6alkyl-phenyl}$ ,
- (c)  $-\text{C}_3\text{-6cycloalkyl}$ ,
- (d)  $-\text{O-C}_1\text{-6alkyl}$ ,
- (e) halo,
- (f) hydroxy,
- (g)  $-\text{CF}_3$ ,
- (h)  $-\text{OCF}_3$ ,
- (i)  $-\text{NR}^9\text{R}^{10}$ , and
- (j)  $-\text{CN}$ .

Claim 3 (Original) The compound of Claim 1 wherein  $\text{R}^1$  is selected from the group consisting of:

- (1) hydrogen,
- (2) methyl,
- (3) isopropyl,
- (4) isobutyl, and
- (5) phenyl.

Claim 4 (Original) The compound of Claim 1 wherein R<sup>2</sup> is:  
R<sup>4</sup>-S(O)<sub>2</sub>N(R<sup>5</sup>)-,

wherein R<sup>4</sup> is independently selected from the group consisting of:

- (a) -C<sub>1-6</sub>alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (b) phenyl, and
- (c) benzyl,

and wherein R<sup>5</sup> is independently selected from the group consisting of:

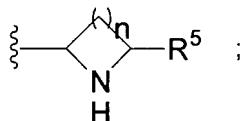
- (a) hydrogen,
- (b) -C<sub>1-6</sub>alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (c) phenyl, and
- (d) benzyl.

Claim 5 (Original) The compound of Claim 1 wherein R<sup>2</sup> is  
CH<sub>3</sub>-S(O)<sub>2</sub>N(CH<sub>3</sub>)-.

Claim 6 (Original) The compound of Claim 1 wherein R<sup>3</sup> is selected from the group consisting of:

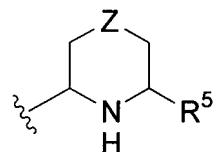
- (1) -CH(OH)-R<sup>6</sup>,
- (2) -C(O)R<sup>6</sup>, and
- (3) -CH(R<sup>6</sup>)-NR<sup>7</sup>R<sup>9</sup>.

Claim 7 (Original) The compound of Claim 1 wherein R<sup>6</sup> is:



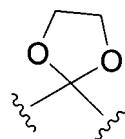
and wherein n is 2 or 3, and R<sup>5</sup> is hydrogen or methyl.

Claim 8 (Original) The compound of Claim 1 wherein R<sup>6</sup> is:



wherein R<sup>5</sup> is hydrogen or methyl, and Z is selected from the group consisting of

-C(O)-, -CH(OH)-, and



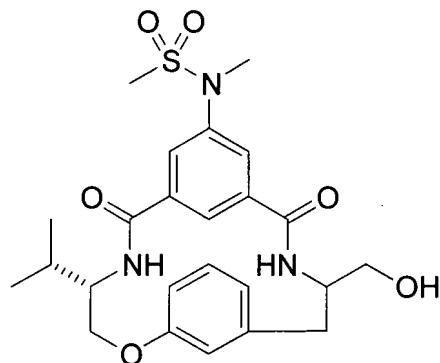
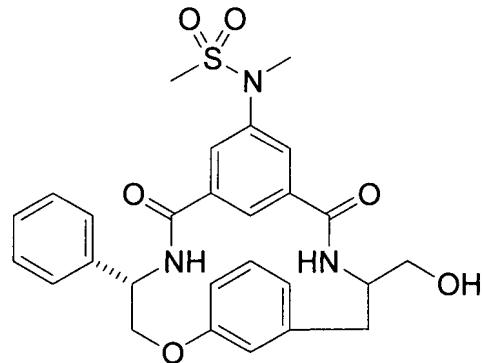
Claim 9 (Original) The compound of Claim 1 wherein R<sup>3</sup> is selected from the group consisting of:

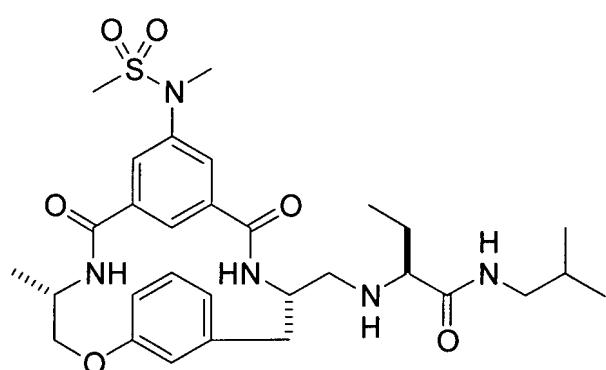
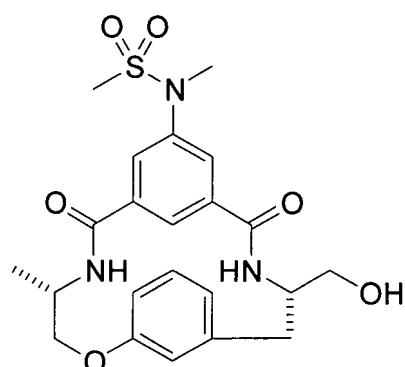
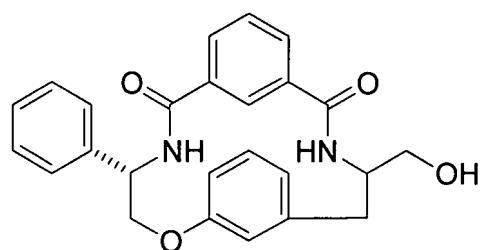
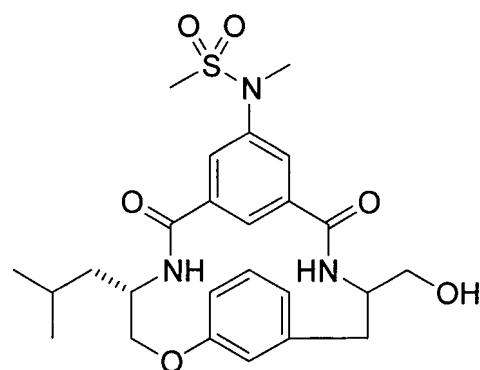
- (1) -CH<sub>2</sub>-OH, and
- (2) -CH<sub>2</sub>-NH-CH(CH<sub>2</sub>CH<sub>3</sub>)-CO-NH-CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>.

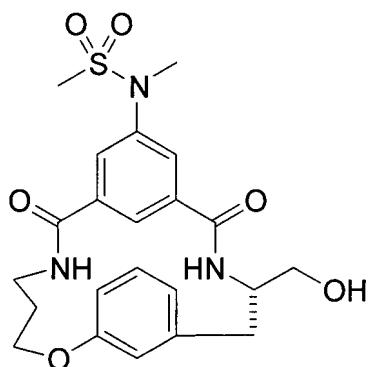
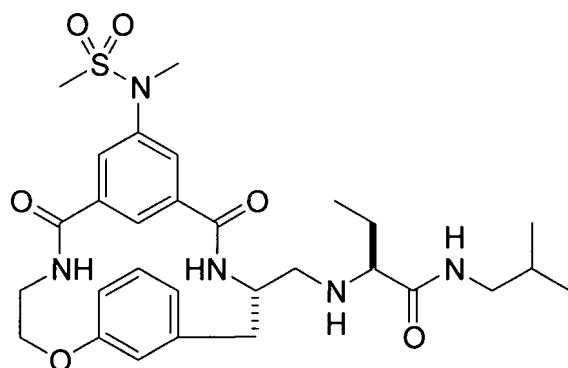
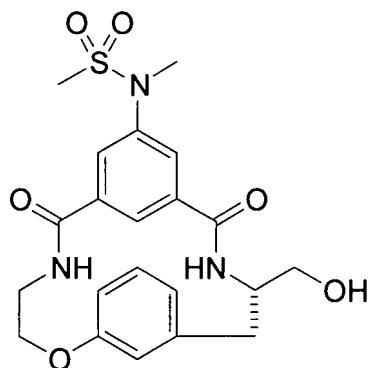
Claim 10 (Original) The compound of Claim 1 wherein m is 1.

Claim 11 (Original) The compound of Claim 1 wherein m is 2.

Claim 12 (Original) A compound which is selected from the group consisting of:







and pharmaceutically acceptable salts thereof.

**Claim 13 (Original)** A pharmaceutical composition comprising an effective amount of a compound of Claim 1 and a pharmaceutically acceptable carrier.

**Claim 14 (Original)** A method for inhibition of  $\beta$ -secretase activity in a mammal in need thereof which comprises administering to the mammal a therapeutically effective amount of a compound of Claim 1.

Claim 15 (Original) A method for treating, preventing, controlling, ameliorating or reducing the risk of Alzheimers disease in a patient in need thereof comprising administering to the patient an effective amount of a compound of Claim 1.